

## Estimated Annual Specific Yield at Hub Height Average Wind Speed

Average Annual Wind Speed		Power Density	Total Conversion	Annual Specific Yield
m/s	mph	W/m <sup>2</sup>	Efficiency	kWh/m <sup>2</sup> /yr
4.0	9.0	75	0.350	230
4.5	10.1	107	0.360	340
5.0	11.2	146	0.370	470
5.5	12.3	195	0.360	610
6.0	13.4	253	0.350	770
6.1	13.7	266	0.346	800
6.2	13.9	279	0.343	840
6.3	14.1	293	0.340	870
6.4	14.3	307	0.335	900
6.5	14.6	321	0.330	930
6.6	14.8	336	0.326	960
6.7	15.0	352	0.323	1,000
6.8	15.2	368	0.320	1,030
6.9	15.5	384	0.315	1,060
7.0	15.7	401	0.310	1,090
7.1	15.9	419	0.305	1,120
7.2	16.1	437	0.300	1,150
7.3	16.4	455	0.295	1,180
7.4	16.6	474	0.290	1,200
7.5	16.8	494	0.285	1,230
8	17.9	599	0.260	1,360
8.5	19.0	718	0.235	1,480
9	20.2	853	0.210	1,570

Hub height wind speed and Raleigh Distribution, k=2.

Assumed efficiency based on published data.

For information on the methods and assumptions used see:

[Wind Power: Renewable Energy for Home, Farm, and Business \(2004\)](#)

Warning: Actual performance may vary.